

CLAIMS

1. An electric motor driven hand-held tool having a tool housing within which is located an integrated switch unit (6) which switch unit includes an electronic motor control unit (8), a first actuator which is actuated by a manually operable power member (4) and to which the control unit is responsive to power the motor and a second actuator (10) which is actuated by a manually operable forward/reverse member (14) and to which the control unit is responsive to drive the motor in a selected forward or reverse direction, characterised in that the forward/reverse member (14) is located remotely from the switch unit (6) on a portion of the tool housing which can be seen by a user of the tool during normal operation of the tool and a linkage arrangement (16) is moveably mounted within the tool housing for actuating the second actuator (10) in response to a manual actuation of the forward/reverse member (14).
2. A tool according to claim 1 wherein the forward/reverse member (14) is located on a surface of the tool housing which is directed upwardly in the most common operating position of the tool.
3. A tool according to claim 1 or claim 2 wherein the tool housing has a body portion (3, 5) and a main handle (2) extending from the body portion and the forward reverse member (14) is located on the body portion (3, 5) and the power member (4) is located on the main handle with the switch unit (6) is located adjacent the power member (4).
4. A tool according to any one of the preceding claims wherein the forward reverse member (14) is located on an upper facing face of the tool housing (in the normal operating position of the hammer) and the power member (4) is located on a downwardly facing face of the tool housing with the switch unit (6) located adjacent the power member.
5. A tool according to any one of the preceding claims wherein the linkage (16) is pivotally mounted within the tool housing so that manual actuation of the forward/reverse member (14) causes the linkage to pivot and to actuate the second actuator (10).

6. A tool according to claim 5 wherein the linkage (16) is pivotally mounted on a motor housing portion (3) of the tool housing.
7. A tool according to claim 6 wherein the linkage (16) is pivotally mounted on a closed end of the motor housing (3), which motor housing end is adjacent to an end of the motor.
8. A tool according to claim 7 wherein the closed end of the motor housing (3) is the rearward end of the motor housing.
9. A tool according to any one of claims 6 to 8 wherein the pivot axis of the linkage (16) is parallel to the longitudinal axis of the motor.
10. A tool according to any one of claims 7 to 9 wherein the pivotally mounted portion of the linkage (16) is formed with a central annular portion (18) which is pivotable about a boss (24) formed on the closed end of the motor housing (3).
11. A tool according to any one of claims 6 to 8 wherein the motor housing is a jam pot housing (3) having said closed end and an opposite open end.
12. A tool according to any one of claims 6 to 9 wherein a fixing boss (34) extends from the motor housing (3) and a rear handle portion (2) of the tool housing is fixed to the motor housing (3) via a fixing which engages the fixing boss (34) and the fixing boss (34) is engageable with the linkage (16) to limit movement of the linkage (16) within the tool housing.
13. A tool according to any one of claims 5 to 12 wherein a first arm (20) extends from the pivotally mounted portion (18) of the linkage and the forward/reverse member (14) is located on the first arm.
14. A tool according to any one of claims 5 to 13 wherein a second arm (22) extends from the pivotally mounted portion (18) of the linkage and the second arm (22) engages the second actuator (10).

15. A tool according to any one of the preceding claims wherein the power member (4) is a trigger switch.

16. A tool according to any one of the preceding claims wherein the power member (4) and switch unit (6) are arranged such that when the power member (4) is acted on by a user of the tool so as to power the motor, the power member (4) holds the second actuator (10) against movement by the linkage (16).